

3M General Offices

Industrial Hygiene

00-64
1530

3M Center

St. Paul, Minnesota 55144-1000

612/733 1110

AUG 16 1989

Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET**3M**

DIVISION: Building Service & Cleaning Products

TRADE NAME:

3M Brand Trouble Shooter Cleaner

3M I.D. NUMBER: 61-5000-0313-4 61-5000-6131-4

ISSUED: APRIL 19, 1989

SUPERSEDES: APRIL 6, 1989

DOCUMENT: 10-2818-2

1. INGREDIENT	C.A.S. NO.	PERCENT	----- EXPOSURE -----		LIMITS -----	
			VALUE	UNIT	TYPE	AUTH
Water	7732-18-5	70.0 - 75.0	NONE	NONE	NONE	NONE
2-Butoxyethanol	111-76-2	14.0	25	ppm	TWA	ACGIH
Isobutane	75-28-5	8.0	NONE	NONE	NONE	OSHA
Ethanolamine	141-43-5	4.0	3	ppm	TWA	ACGIH
Propane	74-98-6	1.0	1000	ppm	TWA	OSHA
Ethoxylated secondary alcohols	68131-40-8	< 1.0	NONE	NONE	NONE	OSHA

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- NONE: None Established

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

2-Butoxyethanol

2. PHYSICAL DATA

BOILING POINT:..... 212.00 F
 VAPOR PRESSURE:..... N/D
 VAPOR DENSITY: N/D
 EVAPORATION RATE:..... N/D
 SOLUBILITY IN WATER: complete
 SP. GRAVITY:..... 0.999 Water = 1
 PERCENT VOLATILE: ca. 98.00 %
 VOLATILE ORGANICS: N/D
 pH: 11.80
 VISCOSITY: N/D
 APPEARANCE AND ODOR: White, foamy, viscous liquid, bland odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... 196.00 F T.C.C.
 Above for liquid; propellant < 0 F
 FLAMMABLE LIMITS - LEL: N/D
 FLAMMABLE LIMITS - UEL: N/D
 AUTOIGNITION TEMPERATURE: ... N/D
 EXTINGUISHING MEDIA:
 Carbon dioxide, foam, dry chemical.
 SPECIAL FIRE FIGHTING PROCEDURES:
 Treat as a pressurized container.
 UNUSUAL FIRE AND EXPLOSION HAZARDS:
 Combustible. Treat as a pressurized container.
 NFPA-HAZARD-CODES: HEALTH 1 FIRE 1 REACTIVITY 1
 UNUSUAL REACTION HAZARD: NONE

Abbreviations: N/D - Not Determined N/A - Not Applicable

BOE-C6-0229940

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4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS TO AVOID:

Do not store above 120 F (49 C)

HAZARDOUS POLYMERIZATION: Will Not Occur

HAZARDOUS DECOMPOSITION PRODUCTS:

CO, carbon dioxide and smoke particles.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

If any cans rupture, extinguish all ignition sources, and ventilate the area. Observe precautions from other sections. Use absorbent material as needed in clean-up procedure. Place cans in a Department of Transportation approved container, and seal. Wash down area with water.

RECOMMENDED DISPOSAL:

Do not puncture or burn cans in a household incinerator. Incinerate in a permitted hazardous waste facility that can handle aerosol cans safely. Empty container may be sanitary landfilled. Can contents may be bled into a wastewater treatment system. Since regulations vary, consult applicable regulations or authorities before disposal.

ENVIRONMENTAL DATA:

N/D

SARA HAZARD CLASS:

FIRE HAZARD: No **PRESSURE:** Yes **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with plenty of water. Continue for 10 minutes holding eyelids open. Call a physician.

SKIN CONTACT:

Wash affected area with soap and water.

INHALATION:

If symptoms occur, remove person to fresh air. If symptoms continue, call a physician.

IF SWALLOWED:

Do not induce vomiting. Immediately call a physician.

OTHER FIRST AID:

NONE

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7. PRECAUTIONARY INFORMATION

Keep away from heat, sparks and flame. Avoid direct eye contact. Avoid prolonged and repeated breathing of vapors or spray. Use only in areas with sufficient ventilation to maintain vapor concentrations below the recommended exposure limits. Avoid prolonged and repeated skin contact. As appropriate, use eye and skin protection. Contents under pressure. Do not puncture, incinerate or store above 120 F (49 C). Keep out of reach of children.

ADDITIONAL EXPOSURE LIMITS

INGREDIENTS	EXPOSURE		LIMITS	
	VALUE	UNIT	TYPE	AUTH
2-Butoxyethanol	120	mg/m3	TWA	ACGIH
2-Butoxyethanol	25	ppm	TWA	OSHA
2-Butoxyethanol	120	mg/m3	TWA	OSHA
Ethanolamine	8	mg/m3	TWA	ACGIH
Ethanolamine	6	ppm	STEL	ACGIH
Ethanolamine	15	mg/m3	STEL	ACGIH
Ethanolamine	3	ppm	TWA	OSHA
Ethanolamine	8	mg/m3	TWA	OSHA
Ethanolamine	6	ppm	STEL	OSHA
Ethanolamine	15	mg/m3	STEL	OSHA
Propane	1800	mg/m3	TWA	OSHA

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration

8. HEALTH HAZARD DATA

EYE CONTACT: May cause eye irritation. Symptoms may include transient conjunctival irritation and minimal corneal opacity.

SKIN CONTACT: May cause irritation. 2-Butoxyethanol may be absorbed through the skin and may cause blood changes based on animal studies.

INHALATION: High concentrations of vapors may cause respiratory system irritation and temporary nervous system impairment. Symptoms may include coughing, headache, nausea, vomiting, dizziness, and discomfort to the nose, throat, and chest.

INGESTION: May cause digestive system irritation and liver and kidney injury. Symptoms may include headache, abdominal pain, nausea, vomiting, and weakness. 2-Butoxyethanol may cause blood changes based on animal studies.

Abbreviations: N/D - Not Determined N/A - Not Applicable

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.